



**NASA Supplier Assessments
at Lockheed Martin Space Systems Company**

**Regina Palmer
Lockheed Martin Space Systems Company
Sensing & Exploration Systems (S&ES) Line of Business (LOB)
Quality Assurance Director**

METEOROLOGY AND EARTH SCIENCE

Defense Meteorological Satellite Program (DMSP)



Television Infrared Observation Satellite (TIROS)



Courtesy: NASA

(All Flying)



Courtesy: NASA



Courtesy: NASA

International Space Station (ISS)



SUVI



GLM

GOES-R



Near Infrared Camera (NIRCam)

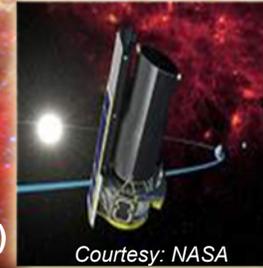
ASTRONOMY AND PHYSICS



Courtesy: NASA

Hubble Space Telescope (HST)

Spitzer Space Telescope (formerly SIRTf)



Courtesy: NASA

MARS AND SOLAR SYSTEM EXPLORATION



ASRG



2001 Mars Odyssey



Mars Reconnaissance Orbiter (MRO)



MAVEN



Phoenix (Completed)
Courtesy: NASA



Mars Science Laboratory (MSL)

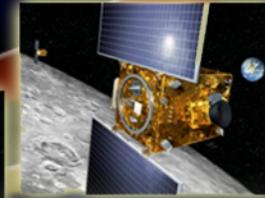


Stardust NeXT



Courtesy: NASA

Juno



GRAIL

Lockheed Martin Facilities



West Coast Operations
Sunnyvale - Palo Alto, CA

ISS, TIROS, DMSP,
GLM, SUVI, NIRCcam,
IRIS



Space Power
Valley Forge, PA

ASRG



Commercial Space
Newtown, PA

GOES-R



Stennis, MS

GOES-R



Space Exploration Systems
Denver, CO

Odyssey, Stardust, Spitzer,
MRO, Phoenix, MSL, Juno,
GRAIL, MAVEN, GOES-R



Coherent Technologies
Louisville, CO

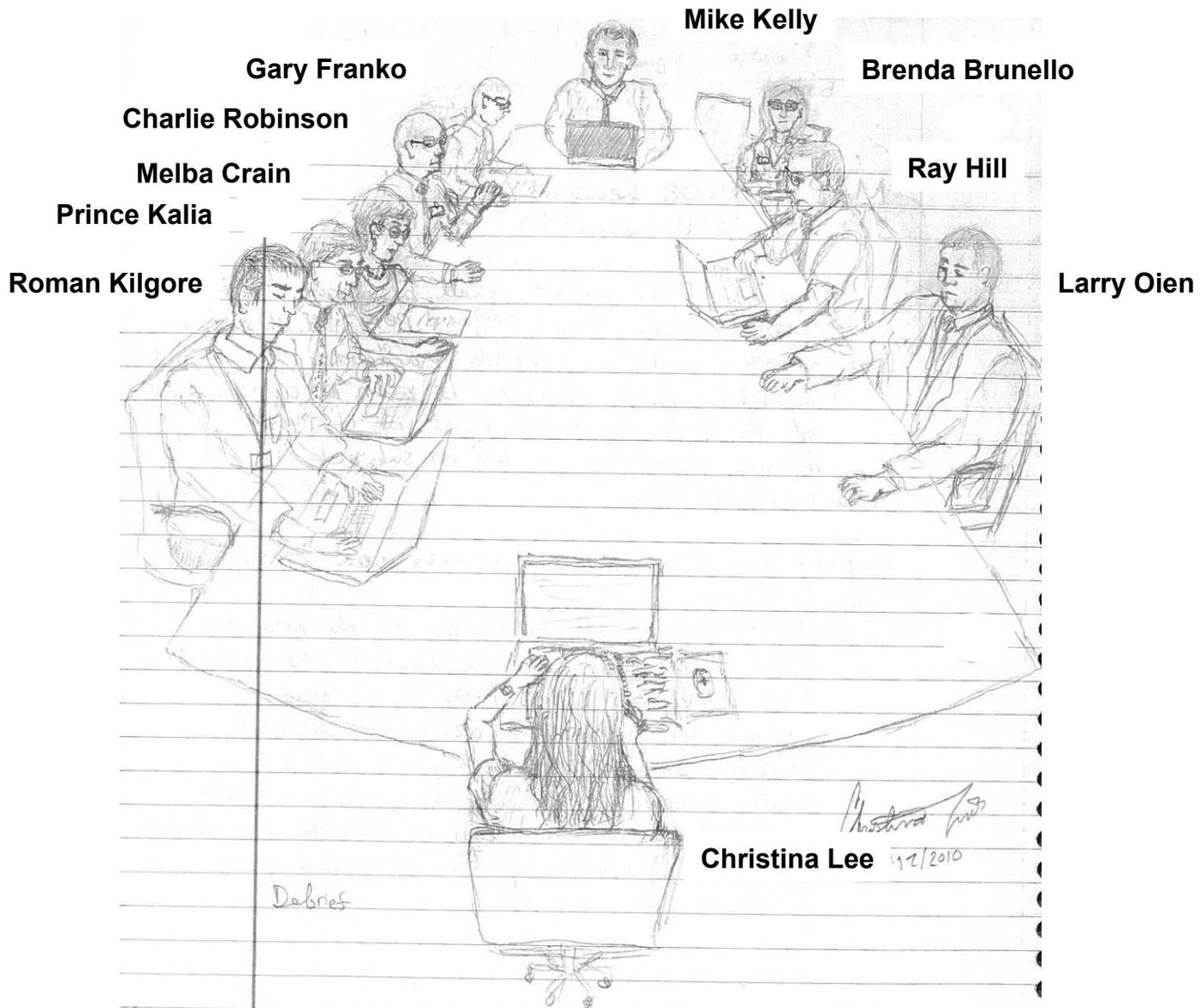
WindTracer®, ARPOD, WANDER,
Biometrics, Guidestar



East Coast Operations
Greenbelt, MD

HST, GOES-R

NASA Intern's View of the NASA NCAS Assessment Team at the Recent Denver Assessment



NASA NCAS Assessment Evolution



- **Assessments at Lockheed Martin Started in 2002 with NASA SAC (Supplier Assessment Contract) Audits and Evolved to NASA NCAS Assessments**
- **Assessments Conducted at Various Lockheed Martin Sites:**
 - **Denver**
 - **Sunnyvale**
 - **Palo Alto**
 - **Newtown**
 - **Stennis**
- **Assessments Cover Hardware, Software and Processes Randomly Sampled/ or 100% Reviewed for Objective Evidence**
- **Findings/Observations Identify Processes that Require Improvement/ Evaluation**
- **Identify Best Practices**

Breakdown of Findings/Observations from Previous NASA NCAS Assessments



Process Changes	Use-As-Is	Corrected	Training
56%	23%	17%	4%

- **Process Changes**—Process changes made
- **Use-As-Is**—Processes sufficient to meet requirements
- **Corrected**—issue/concern resolved
- **Training**—personnel re-trained

Closed Loop Resolution Process

Summary



- **Multidiscipline Approach Makes Effective Assessments**
- **Assessment Team engaged in physical verification of hardware, software and processes instead of paper**
- **Provides communication of lessons learned and best practices**
- **Value Assessment Team – Gives insight into capabilities of suppliers**

It's All About Mission Success